

ECS Configuration Change Request

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1. Originator Cherry Kenney	2. Log Date: 03/21/03	3. CCR #: 03-0188	4. Rev: A	5. Tel: 301-883-4177	6. Rm #: 3402D	7. Dept. DEV/CO
8. CCR Title: Patch_6A.07_DPL.04						
9. Originator Signature/Date Cherry A. Kenney /s/ 03/21/03			10. Class II	11. Type: CCR	12. Need Date: 21Mar03	
13. Office Manager Signature/Date Arthur Cohen /s/ 03/21/03			14. Category of Change: Initial ECS Baseline Doc.		15. Priority: (If "Emergency" fill in Block 27). Routine	
16. Documentation/Drawings Impacted (Review and submit checklist):			17. Schedule Impact:		18. Cl(s) Affected:DPL	
19. Release Affected by this Change: 6A		20. Date due to Customer: 17Mar03		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: See Additional Sheet for NCR List						
23. Problem: (use additional Sheets if necessary) This patch includes fixes for DataPool Drill Down Performance NCRs 36181(Sev2), 36717(Sev2) and 36697(Sev3). It also contains a fix for NCR 35965(Sev2), which adds a new DPIU and QuickServer configuration parameter which allows fused I/O to the DataPool SAN. Patch _6A.07_DPL.04 also includes additional fixes for 3 Sev2 NCRs, 11 Sev3 NCRs and 2 Sev5 NCRs.						
24. Proposed Solution: (use additional sheets if necessary) Patch is being released to all DAACs. It was previously released early to EDC. Patch is being revised for corrections to install instructions.						
25. Alternate Solution: (use additional sheets if necessary) None						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) For NCRs 36181, 36717, 36697: Data Pool Drill Down performance will continue to be slow For NCR 35965 : I/O to Data Pool SAN will not be used by FUSED						
27. Justification for Emergency (If Block 15 is "Emergency"): N/A						
28. Site(s) Affected: <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input checked="" type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input checked="" type="checkbox"/> LaRC <input checked="" type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. EDF/SCDV CCB Chair (Sign/Date): Steve Fox /s/ 03/21/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. M&O CCB Chair (Sign/Date): Pamela Johnson /s/ 03/21/03			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 03-0188 **Rev:** **A Originator:** Cherry Kenney

Telephone: 301-883-4177 **Office:** 3204D

Title of Change: Patch_6A.07_DPL.04

Actions

ClearCase Group (CSG)

Please make a set of tar files from the 6A07EBF1 Baseline:

Please make one SOL8 tar file with the following packages:

- .EcDI.pkg
- .EcDIGUI.pkg
- .EcDIWebRollup.pkg
- .EcDIWebAccess.pkg
- EcDICommon.pkg

Please make one IRIX65 (irix65) tar file with the following package:

- .EcDIDatabase.pkg
- .EcDIAMassAccess.pkg
- .EcDICommon.pkg

Please label these tar files Patch_6A.06_DPL.04

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ECSed35454	Sev5	EDC	Move the Spatial range search criteria in front of the Temporal
ECSed35457	Sev5	EDC	Drop 6A.06 DPL.05: Cloud cover sort required.
ECSed35333	Sev3	EDC	DPAD: non cache processes killed before OnTapeTimeLimit expires
ECSed36181	Sev2	LaRC	OPS DPL User Web Access timeout
ECSed36717	Sev2	LaRC	Temporal Summary proc too slow.
ECSed35901	Sev3	LaRC	Spatial Subscription and Data Pool Web based tools do not i
ECSed36160	Sev3	NSIDC	Ftp Access Stats failing to insert into DIGranuleAccess
ECSed35214	Sev3	PVC	WebAccess: lost database connections should be recycled
ECSed35965	Sev2	PVC	QuickServer: need envvars option for fused/nonfused write to SAN
ECSed36641	Sev3	PVC	Webaccess: handle change of spatial search type with version
ECSed36796	Sev3	PVC	Database: ProcDeleteProcess updates retryCount redundantly
ECSed36833	Sev2	PVC	M2XT does not explicitly close the temp XML file
ECSed34354	Sev3	EDF	Time zone calculation incorrect in KillRunaways
ECSed35697	Sev3	EDF	DPAD: FAILED_UNKNOWN is invalid status in DIInsertActionQueue
ECSed36655	Sev3	EDF	Batch Insert does not log when granules w/o collections are not inserted
ECSed36697	Sev3	EDF	DBM: ProcGetOverallSummaries frequently scanning large table.
ECSed36779	Sev3	EDF	Need to add new parameter to .cfgparms for Sanergy
ECSed36872	Sev3	EDF	DB patch 6113, 6123 did not grant permission after re-create table
ECSed36874	Sev2	EDF	Web Rollup log doesn't process browse file access correctly
ECSed36693	Sev2	EDF	DPAD doesn't re-dispatch non-cache actions
ECSed36413	Sev5	EDF	Combine DPL web metadata page and browse page into one page

Patch/TE Dependencies

Patch_6A.07_DPL.04 must be installed on top of Patch_6A.07_DPL.02A.

DAACs can skip TE_6A.07_DPL.03. It delivered NCR 36693, which is being redelivered in Patch_6A.07_DPL.04

DAAC Install Instructions

A. PRE - INSTALLATION

- 1. Copy the *irix65* tar files into the <staging_area>/IRIX65 directory
- 2. Copy the *sun5.8* tar files into the <staging_area>/SOL8/ directory
- 3. Using the Setup.ksh files untar the tar files in both directories
- 4. When prompted, you will not need to install a new version of EcsAssist.
- 5. cd <staging_area>/SOL8/dbms
- chmod -R 775 *
- 6. Bring down all DPL servers and tomcat

B. INSTALLATION:

Logon to any SUN host and install the listed packages using E.A.S.I

.EcDIGUI.pkg
EcDI.pkg
EcDICommon.pkg
EcDIWebAccess.pkg
EcDIWebRollup.pkg
EcDICommon.pkg
EcDIAMassAccess.pkg
EcDIDatabase.pkg

C. CONFIGURATION:

- 1. Run EcDIQuickServerMkcfg and EcDIInsertUtilityMkcfg to add parameter USE_FUSED_SAN

Parameter	Default	Recommended Setting until SANERGY COTS is upgraded
USE_FUSED_SAN	Y	N

Important Note:

Do not set the USE_FUSED_SAN parameter to Y until you have installed the SANergy COTS upgrade which supports this.

The USED_FUSED_SAN configuration parameter determines whether the QuickServer and Data Pool Insert Utility will access the DataPool SAN via a fiber optic link, or via the standard network path. If the USED_FUSED_SAN configuration parameter is "Y", then the fiber optic (FUSED) path is used. Otherwise, the standard network path is used.

- 2. Run EcDIWebAccessMkcfg
- 3. Set permissions for fileincache and filevolume utilities
- a. On each archive host where the EcDIAMassAccess.pkg is installed, logon as root or su to root.
- b. Change the owner:group of the fileincache and fileVolume executables:

chown amass:<group> /usr/ecs/<MODE>/CUSTOM/bin/COMMON/fileincache
chown amass:<group> /usr/ecs/<MODE>/CUSTOM/bin/DPL/fileVolume

NOTES:

- 1. Insert the correct mode (i.e. OPS TS1 TS2) for <MODE>

2. Change the <group> to the appropriate group for your installation. The "appropriate group" is any group to which the user that starts QuickServer(cmshared or allmode) belongs.

3. Change the permissions to enable "sticky bit" using the commands.
chmod 4755 /usr/ecs/<MODE>/CUSTOM/bin/COMMON/fileincache
chmod 4755 /usr/ecs/<MODE>/CUSTOM/bin/DPL/fileVolume

4. Fixes for the "Set Configuration Parameters using Data Pool Maintenance GUI" NCR delivered in this patch exposed a new NCR, ECSed37026(Sev2): DPAD kills DPIUs prematurely. As a workaround for this NCR, use the "Manage Configuration Parameters" page on the Data Pool Maintenance GUI to update the InCacheTimeLimit parameter (multiply the existing value by 60) and update the OnTapeTimeLimit parameter(multiple existing value by 3600).

5. Run EcDIDpmMkcfg.

EcDIDpmMkcfg was modified to generate DataPool.html with mode information

D. Database Installation

1. Logon to the xxacgmn host (where the the DPL Database Package is installed)
2. Bring up EcsSubsystem Manager and patch the DPL database up to Patch 6127

Patch Number Patch Description

6123 - Adds checksum column to DIFile and updates related procs(delivered in Patch_6A.07_DPL.02)

6125 - modified stored procedures for NCR 36655

6127 - also modified ProcDeleteProcess for NCR 36796 and modified stored procedures for Access Stats NCRs 36874/36160

E. Post Installation

Bring up DPL servers

Restart tomcat

OPS Notes: For NCR 36413, the Data Pool Web Access GUI now displays an additional icon in each granule row on the results set page where the granule has an associated browse image. This icon appears after the individual metadata and browse image icons, and is called 'view metadata and browse images'. If the user clicks on this icon, a combined metadata and browse viewer window will be displayed.